

19991210.qrp v01_n665.qrl.991210

Date: Fri, 10 Dec 1999 19:03:09 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1665

QRP-L Digest 1665

Topics covered in this issue include:

- 1) [57700] Re: XMTR: - What is it?
by kc8aon@juno.com
- 2) [57701] NOT QRP: ONCE IN LIFETIME MOON
by ARDUJENSKI@aol.com
- 3) [57702] HB:miniPIG Fun
by "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>
- 4) [57703] Re: XMTR: - What is it?
by Pete Burbank <plburbank@kih.net>
- 5) [57704] Re: NJQRP Newsletter "QRP Homebrewer"
by Oscar A Hoyt <k5ubs@juno.com>
- 6) [57705] Re: HB: NiMH batteries
by Tom Randall <trandall@idsi.net>
- 7) [57706] Re: FOX: KF4AR report
by "Rod Cercone" <rlc@frii.com>
- 8) [57707] [OPERATING] Low weight station setups? HOW TO?
by "Rod Cercone" <rlc@frii.com>
- 9) [57708] CLUBS: Now Showing - The ARS Sojourner
by Richard Fisher <ki6sn@yahoo.com>
- 10) [57709] KOKOPELLI (Was: WYOMING)
by "Rod Cercone" <rlc@frii.com>
- 11) [57710] Re: WAS from Multiple Locations
by Larry Cahoon <wd3p@juno.com>
- 12) [57711] LOOKING FOR K10J?????
by Wayne Alexander <walexan@ipa.net>
- 13) [57712] Gell Cell charger circuit
by Richard Arland <k7sz@epix.net>
- 14) [57713] Re: feeding dipoles with ladderline... also some tuner thoughts & questions
by Clay N4AOX <wyn@worldnet.att.net>
- 15) [57714]
by "Richard Matthews" <prm@hiwaay.net>
- 16) [57715] Re: KOKOPELLI (Was: WYOMING)
by "Richard Matthews" <prm@hiwaay.net>
- 17) [57716] CLUB: Austin QRP Club Meeting Saturday
by Glen Reid <k5fx@flash.net>
- 18) [57717] Fwd: (Was: WYOMING)
by Roy <marion@montana.com>

- 19) [57718] Re: KOKOPELLI (Was: WYOMING)
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
- 20) [57719] Receivers: CW Filters an Alternate View
by "James R. Duffey" <jamesd1@flash.net>
- 21) [57720] Re: Getting feedline into house...still more
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 22) [57721] RE: Wyoming...ME T00!!!
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 23) [57722] QRP+ repair info wanted
by "Kelly Ellison" <kelman@dialnet.net>
- 24) [57723] Yaesu VX5R List
by k5xu@concentric.net
- 25) [57724] Re: Parallel feedlines and static discharge
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 26) [57725] Re: New Call - KV4CZ - ex kf4eib Gordon
by Thomas Isgro <k8cz@concentric.net>
- 27) [57726] Re: Getting feedline into house...still more
by Robert McConnell <rmcconne@lightlink.com>
- 28) [57727] Any Yaesu 840 owners out there?
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 29) [57728] CONTEST: This Weekend - QRP Calendar
by Ken Newman <N2CQ@citnet.com>
- 30) [57729] Re: Parallel feedlines and static discharge
by "George T. Baker" <w5yr@worldnet.att.net>
- 31) [57730] RE: Feedline/house and lightening
by aweiss@usd.edu (Ade Weiss W0RSP)
- 32) [57731] Re: QRP+ repair info wanted
by Bob Patten <n4bp@bc.seflin.org>
- 33) [57732] Re: Feedline/house and lightening
by "Robert Roach" <ke4qok@worldnet.att.net>
- 34) [57733] Growing TT2 Photo Gallery
by "ElectronicsUSA.com" <wpc@west.net>
- 35) [57734] Re: Parallel feedlines and static discharge
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 36) [57735] Re: LOOKING FOR K10J?????
by Wayne Alexander <walexan@ipa.net>
- 37) [57736] Re: Parallel feedlines and static discharge
by "Bradfield, Brad V." <BBradfield@spectrapoint.com>
- 38) [57737] RE: Looking for K10J?????
by Macstein@aol.com
- 39) [57738] Re: Gell Cell charger circuit
by Dave Ek <ekdave@earthlink.net>
- 40) [57739] Re: QRP-L digest 1658
by hattonte@gdls.com
- 41) [57740] SOLAR CHARGER/BATTERY PACK GROUP PURCHASE?
by "W5TB - 'Doc' Drake" <w5tb@softhome.net>
- 42) [57741] Heathkit
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>

- 43) [57742] RE: SOLAR CHARGER/BATTERY PACK GROUP PURCHASE?
by Karl Kanalz <KKanalz@excel.com>
 - 44) [57743] HB: HF Sig Gen
by "Steven Weber" <kd1jv@moose.ncia.net>
 - 45) [57744] Re: [OPERATING] Low weight station setups? HOW TO?
by Larry Cahoon <wd3p@juno.com>
 - 46) [57745] Worked All States mW QSL cards
by Jim Hale <kj5tf@yahoo.com>
 - 47) [57746] Watch Out! The QRPers Are Coming! DX2000 Vancouver July 28-30
by "Bruce Prior" <n7rr@hotmail.com>
 - 48) [57747] HB: Building a Frequency Counter
by "Brad Hernlem" <alihernlem@hotmail.com>
 - 49) [57748] They called him Hack.
by Ed Loranger <we6w@qsl.net>
 - 50) [57749] Re: They called him Hack.
by "Mike Yetsko" <myetsko@insydesw.com>
 - 51) [57750] FOX: very advance FOX notice--K7GT
by Allan G Taylor <k7gt@arrl.net>
 - 52) [57751] Winding toroids for the NW radios
by Scott Gregson - KC7MAS <emtech@steadynet.com>
 - 53) [57752] HB: looking for a technical paper
by Mike Gipe <mgipe@reliablemeters.com>
 - 54) [57753] Re: They called him Hack.
by GUARDM@aol.com
 - 55) [57754] Selling Sierra + SST-20, need prices
by Joe Gervais <vole@primenet.com>
 - 56) [57755] FYBO? HACK
by tom whalen <wb5qyt@eFortress.com>
 - 57) [57756] Re: They called him Hack.
by "Richard E. Robinson" <rerobins@email.uncc.edu>
 - 58) [57757] Transmatch on ARS Sojourner
by Bill Jones <kd7s@psnw.com>
 - 59) [57758] re: NJQRP's "QRP Homebrewer"
by "George Heron N2APB" <n2apb@erols.com>
 - 60) [57759] SNOWSHOE RUN IS TOMORROW (SATURDAY) NIGHT!
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 61) [57760] PM-3A and AC supply for sale
by Jim/Julia <w7ls@blarg.net>
 - 62) [57761] Books needed on Radio electronic RX and TX
by Johnny <km5im@telepath.com>
 - 63) [57762] ARRL SS Deadline gone...
by Ed Loranger <we6w@qsl.net>
 - 64) [57763] Weird offer - gel-cell charger
by Scott Gregson - KC7MAS <emtech@steadynet.com>
 - 65) [57764] Re: FYBO? HACK
by "Paul Harden, NA5N" <na5n@rt66.com>
-

Date: Thu, 9 Dec 1999 17:48:13 EST
From: kc8aon@juno.com
To: SBillingsley@usaninc.com, qrp-1@Lehigh.EDU
Subject: [57700] Re: XMTR: - What is it?
Message-ID: <19991209.185427.4575.2.kc8aon@juno.com>

Isn't the "Gibson Girl" a beacon radio used to send out a signal can be traced to a ship that is lost or something like that ?

kc8aon <><

On Thu, 9 Dec 1999 15:16:57 -0500 Sam Billingsley
<SBillingsley@usaninc.com> writes:
>Clues:
>
>TRY TO GUESS WHAT THIS IS BEFORE YOU LOOK AT THE PICTURE.
>
>1. Known as Radio Set SCR-578.
>
>2. Transmitter name BC-778 (2 tubes)
>
>3. Commonly known as a "Gibson girl".
>
>4. Built during the early 1940's.
>
>5. Operated on 500 kHz at QRP levels (4-9 watts)
>
>6. Used up to 300 foot end-fed long wire antenna.
>
>7. Human (hand) powered.
>
>8. Designed to be held by your legs.
>
>9. Contained cam operated Morse Code keyed messages.
>
>I'll be putting out more on my web page later.
>
>Sam AE4GX
>
>
>
>Take the test above the checkout
><http://ae4gx.home.mindspring.com/scr578.jpg>
>===== KL QRP Club Mailing List =====
>To unsubscribe from this list, send email to listserver@vramp.net
>and put the text "unsubscribe klqrp" in the message. To post a

>message to the list, send email to klqrp@vramp.net.

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Date: Thu, 9 Dec 1999 19:04:13 EST
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [57701] NOT QRP: ONCE IN LIFETIME MOON
Message-ID: <0.59690444.25819d7d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Thought I'd pass on for inquiring minds. Contest? Do I hear contest? 8-)
Alan KB7MBI

> Once-In-A-Lifetime-Moon

>

> This year will be the first full moon to occur on the winter solstice,

> Dec. 22, commonly

> called the first day of winter. Since a full moon on the winter solstice

> occurred in conjunction

> with a lunar perigee (point in the moon's orbit that is closest to Earth)

>

> The moon will appear about 14% larger than it does at apogee (the point in

> it's elliptical

> orbit that is farthest from the Earth) since the Earth is also several

> million miles closer to

> the sun at this time of the year than in the summer, sunlight striking the

> moon is about 7%

> stronger making it brighter.

>

> Also, this will be the closest perigee of the Moon of the year since the

> moon's orbit is

> constantly deforming. If the weather is clear and there is a snow cover

> where you live, it is

> believed that even car headlights will be superfluous.

>

> On December 21st. 1866 the Lakota Sioux took advantage of this combination

> of

> occurrences and staged a devastating retaliatory ambush on soldiers in the

> Wyoming

> Territory.

>

> In laymen's terms it will be a super bright full moon, much more than the

> usual AND it

> hasn't happened this way for 133 years!

>

> Our ancestors 133 years ago saw this. It will be 100 or so years from now

> till our

> descendants will see this again.

Date: Thu, 9 Dec 1999 19:43:18 -0500

From: "Dieter Gentzow - WB8QYY" <wb8qyy@one.net>

To: <qrp-1@lehigh.edu>

Subject: [57702] HB:miniPIG Fun
Message-ID: <006001bf42a7\$8daa8ec0\$0102030a@amd300>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

I posted this to the Flying Pigs QRP Club, International
Had so much fun I thought I'd share it...

What a fun evening so far...

I was in my shack assembling miniPIG #2 for our qrp club;
had miniPIG rig #1 tuned to 28064;
All of a sudden I hear "oo oo FP KL7...."
I'm thinkin 'no way'; can't be a club member in AK land?
Then I hear the KL7 say "N8IE DAN de FP#24"
Well that was it; N8IE is club member FP#6
I jumped in there with my whole one watt and
started to qrm their qso.
Got a bit excited.
Heard Bruce say all was FB except
someone was calling on freq;
I felt a little bad but not too much :-)
Finally their qso was over and I POUNCED!
Bruce came back and gave me a 429;
Gave him a 449 on his 5 watts.
This sure makes the hobby worthwhile.
goosebumps!
1st AK at qrp AND with a club member
AND with miniPIG Rig #1
I feel like I just hit a grand slam in the bottom of the 9th.
Thanks for lettin me share this with ya all. log is at ...

<http://w3.one.net/~gentzow/log9912.htm>

73 - Dieter (DIZ) Gentzow - WB8QYY "oo's"
Loveland, Ohio - NE suburb of Cincinnati
FPqrp#1 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://w3.one.net/~gentzow/wb8qyy.htm>

Date: Thu, 09 Dec 1999 19:44:17 -0500

From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [57703] Re: XMTR: - What is it?
Message-ID: <3.0.32.19991209194412.007176d4@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 05:48 PM 12/9/99 EST, you wrote:

>Isn't the "Gibson Girl" a beacon radio used to send out a signal can be
>traced to a ship that is lost or something like that ?

Yes, the name was derived from the "girlish" shape of the radio
and it was designed for use from liferafts.

If you look at the picture you will notice a round device on
the front. That hinged out and contained a reel of wire that
was I believe elevated by a balloon. The knob on the reel is
the brake and the hand crank is inside.

73 Pete NV4V

Date: Thu, 9 Dec 1999 17:40:23 -0600
From: Oscar A Hoyt <k5ubs@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [57704] Re: NJQRP Newsletter "QRP Homebrewer"
Message-ID: <19991209.190240.-3199855.0.k5ubs@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

On Mon, 6 Dec 1999 02:42:51 -0600 "Chuck Adams K7Q0" <k7qo@primenet.com>
writes:

>Gang,
>Some of you have been dragging your feet and you are about
>to make a serious mistake IMHO.

ok, my feet are no longer dragging.... sent check off for my subscription
yesterday. procrastinating cost me the first issue

Oscar Hoyt, ham since '55, ARRL, QCWA, QRP-L 1733, NORCAL

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Get your free software today: <http://dl.www.juno.com/dynoget/tagj>.

Date: Thu, 9 Dec 1999 20:11:06 -0500
From: Tom Randall <trandall@idsi.net>
To: mikemo@attglobal.net, qrp-1@Lehigh.EDU
Subject: [57705] Re: HB: NiMH batteries
Message-ID: <199912100111.UAA15340@pop.idsi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Mike and gang,

Sorry for the delay, I'm 4 days behind in reading my QRP digests but saw your post and wanted to reply. Try this place, very good selection, prices and fast!

<http://thomas-distributing.com/index.htm>

Just got 16 Nexcells from them and AA battery holders for my Maha C-777.

73,
Tom Randall

Tom Randall -- tprandall@idsi.net (Remove the "P" to e-mail me)
Amateur Radio - KB2SMS - ARRL / 10-10 / QRP-L #1965
Member: AAVSO Solar Division

My Astronomy/Ham radio site: <http://www1.mhv.net/~trandall/welcome.html>

Date: Thu, 9 Dec 1999 18:02:55 -0700
From: "Rod Cerkoney" <rlwc@frii.com>
To: <K1JD@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Richard E. Robinson" <rerobins@email.uncc.edu>
Subject: [57706] Re: FOX: KF4AR report
Message-ID: <011201bf42ad\$87e3ec60\$288711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey guys!

40 Fritz out here too. About 0145 nothin' no hound, no fox nothin'.
Pre Y2k glith, LGM, UFOs...??? I just turned 50 too!!!!!!!!!!!! ; -0
could that be it?

72/3 Rod, NØRC -- Fort Collins, CO

----- Original Message -----

From: <K1JD@aol.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Thursday, December 09, 1999 3:43 PM

Subject: Re: FOX: KF4AR report

> Hey Rick:

> The "switch" thing happened to me as well - it was eerie - 1st 40 minutes

> going great guns and then *poof* ...nothing but whispers in the noise.

> Coincidentally, I just turned 50 as well so hope there's no connection!

> Thanks for the pelt.

>

> 73,

> John K1JD

> Jamestown, RI

> K2 SN's #139 & #583

> G5RV at 40'

>

Date: Thu, 9 Dec 1999 18:31:42 -0700

From: "Rod Cerkoney" <rwc@frii.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [57707] [OPERATING] Low weight station setups? HOW TO?

Message-ID: <011a01bf42ae\$76af35c0\$288711d8@compaq>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I just finished reading the ARS SP results/soapbox. A question: What are

you less than two pound station folks using for power supplies?

72/3 Rod, NØRC -- Fort Collins, CO

Date: Thu, 9 Dec 1999 14:17:30 -0800 (PST)
From: Richard Fisher <ki6sn@yahoo.com>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Cc: russ@natworld.com, KI6SN@aol.com
Subject: [57708] CLUBS: Now Showing - The ARS Sojourner
Message-ID: <19991209221730.17491.qmail@web214.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The final edition of "The ARS Sojourner" of the 20th century is on the news stand at:

<http://www.natworld.com/ars>

The Adventure Radio Society's monthly web magazine closes out the old millennium in style with some great contributions from members and wonderful staff-written articles and photographs.

The December edition's table of contents includes:

- + Adventures on QRP Afield: The AA5Backpacker Expedition, by Bruce Draper, AA5B
- + A Thing of Beauty: It All Started with a Tree, by Bill Jones, KD7S
- + The Cold, Hard Facts: Preventing Hypothermia, by Dr. Bob Armstrong, N7XJ
- + The ARS QRP Lab Reviews the Wilderness Radio SST Transceiver, by Russ Carpenter, AA7QU
- + Adventure Radio Society: Your E-mail Connection, by Richard Fisher, KI6SN
- + Results and soapbox comments from December's Spartan Sprint
- + Wilderness Alerts for December, 1999 (regularly updated)
- + And regular features including: From Our Vantage Point, Who's Who And Who's New: New Members of the Adventure Radio Society, Upcoming ARS events, and announcement of January 2000's Spartan Sprint.

AS A BONUS, and thanks to the hard work of ARS webmaster Russ Carpenter, AA7QU, this month's edition also offers a cumulative index of articles and links to all past editions of The ARS Sojourner. It's a great way to catch up on articles you may have missed, or would like to read again.

As always, we thank the QRP community for its tremendous support of ARS. We hope you enjoy this month's edition of The ARS Sojourner, and welcome your comments, suggestions and contributions.

We also wish you a joyous, peaceful and safe holiday season.

Vy 72,

Richard Fisher, KI6SN
Executive Editor, The ARS Sojourner
KI6SN@yahoo.com

Do You Yahoo!?
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Date: Thu, 9 Dec 1999 18:46:03 -0700
From: "Rod Cerkoney" <rwc@frii.com>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [57709] KOKOPELLI (Was: WYOMING)
Message-ID: <021801bf42b1\$26c5b900\$288711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

[Never saw this come though QRP-L so I'll try it again.]

Bruce et.al.

It is time to do something I've been planning for a long time; a series of mini-expeditions, "qrEXpEDITIONS", in and around my NE CO QTH. Wyoming will be the first to help honor requests like Bruce's. (I live 40mi south of the CO/WY border.)

I don't have much time left this month. I work in computer support so I will be pulling extra duty as Y2K looms closer. I'm also active in our ARES group and that too is getting busy as Y2K looms. And, a whole bunch of other stuff. But we'll find a time. WHAT WOULD YOU PREFER, WEEKEND DAY, WEEKDAY? Days that look good so far are 11, 12, 19 some days 20-30th have to double check work sked. Vote now vote often. ;-)

On a more general note:

qrEXpEDITIONS Objectives: It is born from, and is a blend of ARS and QRP to the Field activities. qrEXpEDITIONS will travel to interesting places around NE CO. Read Micheners Centennial to get an Idea of what I am speaking about. Pawnee Buttes, Oregon Trail (WY), Overland Trail

stage-coach stop...and others. From these sites I'll run QSO's for 2-4 hours and then put the log up on a web-site, along with a brief write-up about the area I was at. Maybe even a picture or two and links to other websites that are related.

Why KOKOPELLI? Kokopelli is a SW Indian art figure. The little hunched over flute playing figure many of you have seen. I've read a little about Kokopelli, he(she) was a symbol of fun, myrth, joy, fertility...a traveling minstrel sort of character, a communicator. As I was reading about him one day, suddenly the notion of qrEXpEDITIONS popped into my mind. It occurred to me that we are much like Kokopelli, using a more modern flute: the K2, NorCal 20, DSW rigs...etc.

So that's the deal, KOKOPELLI 1, A qrEXpEDITION to WY, date TBD.

72/3 Rod, NØRC -- Fort Collins, CO

----- Original Message -----

From: Bruce Muscolino <w6toy@erols.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Thursday, December 09, 1999 6:11 AM

Subject: Wyoming

> Are there any Wyoming stations out there? As the century winds down I
> find I am missing a Wyoming QSO for WAS. Somehow I think I have worked
> it but I have lost one of my logbooks and do not have the QSL. I would
> like to make a schedule with a Wyoming station. You can set the time
> and place.

72/3 Rod, NØRC -- Fort Collins, CO

Date: Thu, 9 Dec 1999 21:27:37 +0000

From: Larry Cahoon <wd3p@juno.com>

To: ku7y@dri.edu, qrp-l@Lehigh.EDU

Subject: [57710] Re: WAS from Multiple Locations
Message-ID: <19991210.020106.3942.0.wd3p@juno.com>

On Wed, 8 Dec 1999 20:03:12 -0800 (PST) Monte Stark <ku7y@dri.edu>
writes:

>
>Look at the 160m QRP WAS I'm trying to get. Only 3 to go.... :-)
>

I talked with last years winner QRP(world) in the ARRL 160 meter contest.
Running from MD he missed two states this year - AK and NV.

Meanwhile I got my dipole together but it is still sitting on the ground
- perhaps I'll get it up in time for the CQ 160.

73 de Larry.....WD3P

Why pay more to get Web access?
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Get your free software today: <http://dl.www.juno.com/dynoget/tagj>.

Date: Thu, 09 Dec 1999 20:11:23 -0600
From: Wayne Alexander <walexan@ipa.net>
To: qrp-l@lehigh.edu
Subject: [57711] LOOKING FOR K10J?????
Message-ID: <4.2.0.58.19991209200132.00955be0@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I am wondering if any one on the list can help me with K10J's E-Mail address?
He was the first fox and made a mistake on my call in his final log and I
have been

E-Mailing the address that I have but have received NO REPLY.

MOMMA FOX will not make the change unless the FOX tells him too.

I sent the correction to K10J the day after the FOX Hunt and he said that
he had made a typing error and would correct it.He has not how ever made
the correction.This is all that stands in the way of a perfect score so far.
Can someone HELP ME PLEASE????

73,
N0EA
Wayne
Willard,MO
FISTS # 4907

QRP-L # 1058

Date: Fri, 10 Dec 1999 02:06:17 -0500
From: Richard Arland <k7sz@epix.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [57712] Gell Cell charger circuit
Message-ID: <3850A669.CA89C22E@epix.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone have a simple gell cell charger circuit in a PDF file that they would send me. Have need of one for a special project at work .

73 es tnx.

Rich K7SZ

Date: Thu, 09 Dec 1999 21:29:04 -0500
From: Clay N4AOX <wyn@worldnet.att.net>
To: NB6M@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [57713] Re: feeding dipoles with ladderline... also some tuner thoughts & questions
Message-ID: <38506570.6B6E@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NB6M@aol.com wrote:

>

> I am not able to tune 10 meters with this setup,

One of the things you might try to get it going on 10M is add or subtract an 8 foot segment of line to your 94 feet. Sometimes this can change the feed point impedance at the balun sufficient to allow a workable match. See Cecil Moore W6RCA 's website for a good discussion on working with tuned feeders.

72/73,
Clay N4AOX

Date: Thu, 9 Dec 1999 20:46:08 -0600
From: "Richard Matthews" <prm@hiwaay.net>
To: "q" <qrp-1@Lehigh.edu>
Message-ID: <038401bf42b8\$b6bb3100\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Had to tell it, tonight, I made the first contact on 30 meters ever with a brand new Small Wonder Labs DSW-30 and, to make it even better, I was maritime mobile from my 30 year old shantyboat on the Tn. River here in North Alabama. The lucky ham on the other end was Tony, N2ATB in New Jersey. He offered up a 569 to my 2 watt boat mobile signal. Thanks Tony for listening to my still improving code and the low signal from the river. What another great feeling, thanks Dave at SWL's for all this joy. 30 meters is just right, antenna wise, for the old 30 footer, with a 20 foot mast up midway on the port side, I can dangle an inverted vee across the roof to the starboard corners. beleive it or not, as I was making the contact, there was a bunch of mallard ducks swimming nearby and providing some natural QRM. It is warm, windy, and stormy tonight here in Dixie .

To make it an even better day, I received my qrp-1 number today also, I'm #2098now, how do you snare one of those foxes?

72,

Richard, WA4NWW
qrp-1 # 2098

Date: Thu, 9 Dec 1999 20:50:37 -0600
From: "Richard Matthews" <prm@hiwaay.net>
To: "q" <qrp-1@Lehigh.edu>, <rlwc@frii.com>
Subject: [57715] Re: KOKOPELLI (Was: WYOMING)
Message-ID: <038901bf42b9\$590d73a0\$6f85150c@scottsboro.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Subject: KOKOPELLI (Was: WYOMING)

>
> It is time to do something I've been planning for a long time; a
> series of mini-expeditions, "qrEXpEDITIONS", in and around my NE CO
> QTH. Wyoming will be the first to help honor requests like Bruce's. (I
> live 40mi south of the CO/WY border.)
> So that's the deal, KOKOPELLI 1, A qrEXpEDITION to WY, date TBD.
>
> ---
> 72/3 Rod, N0RC -- Fort Collins, CO
.....

I'll make a similar offer for Tn/Al/Ga. I live about 25 miles from the
tri-state corner of Tenn-Alabama-Georgia.

If I set up on the exact point, can't I qualify for being in all three? Or,
what if I sit in Alabama, hang the center of the inverted vee in Tennessee,
and lets the ends fall into Georgia.

72,

Richard, WA4NWW (Three states for the price of one)

Date: Thu, 09 Dec 1999 21:00:24 -0600
From: Glen Reid <k5fx@flash.net>
To: AQRP List <AQRP@onelist.com>, QRP-1 <qrp-1@lehigh.edu>
Subject: [57716] CLUB: Austin QRP Club Meeting Saturday
Message-ID: <38506CC8.3A30B94B@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

The next irregular meeting of the Austin QRP Club will be at 11 AM on
Saturday, Dec. 11th at Luby's.

Check the AQRP web page: <http://www.flash.net/~k5hgb/aqrp.html> for
details.

Hope to see you all there.

73,

gr

--

GLEN REID
K5FX/M BGF

Austin...in the beautiful hill country of TEXAS...

Austin QRP Club # Pi

Email: k5fx@arrl.net

Date: Thu, 09 Dec 1999 08:01:09 -0700
From: Roy <marion@montana.com>
To: <qrp-1@Lehigh.EDU>
Subject: [57717] Fwd: (Was: WYOMING)
Message-ID: <199912100259.TAA29011@mail.montana.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>Date: Thu, 09 Dec 1999 07:57:10 -0700

>>It is time to do something I've been planning for a long time; a
>>series of mini-expeditions, "qrEXpEDITIONS", in and around my NE CO
>>QTH. Wyoming will be the first to help honor requests like Bruce's. (I
>>live 40mi south of the CO/WY border.)
Just a side note: Wyoming is not a hard WAS state for me here in Montana,
But has always been a little hard to work for contests, mostly because of
humongus pileups. But last month in SS I worked SIX Wyomings. Actually
went past a couple more. Several of them did not have 7 calls. Just an
observation. One that can be a tough one for me is Idaho. 73 Roy AB7CE MT

Date: Thu, 9 Dec 1999 22:05:50 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [57718] Re: KOKOPELLI (Was: WYOMING)
Message-ID: <03b201bf42bb\$774fcfa0\$0100a8c0@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

But wouldn't it count if you put your chair in one state and sort of lounged
so that each leg was in another state? Or maybe you could "lie down on the
job" and cross the state borders?

----- Original Message -----

From: Richard Matthews <prm@hiwaay.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, December 09, 1999 9:50 PM
Subject: Re: KOKOPELLI (Was: WYOMING)

>
> Subject: KOKOPELLI (Was: WYOMING)
>
>
> >
> > It is time to do something I've been planning for a long time; a
> > series of mini-expeditions, "qrEXpEDITIONS", in and around my NE CO
> > QTH. Wyoming will be the first to help honor requests like Bruce's. (I
> > live 40mi south of the CO/WY border.)
> > So that's the deal, KOKOPELLI 1, A qrEXpEDITION to WY, date TBD.
> >
> > ---
> > 72/3 Rod, N0RC -- Fort Collins, CO
> >
>
> I'll make a similar offer for Tn/Al/Ga. I live about 25 miles from the
> tri-state corner of Tenn-Alabama-Georgia.
>
> If I set up on the exact point, can't I qualify for being in all three?
Or,
> what if I sit in Alabama, hang the center of the inverted vee in
Tennessee,
> and lets the ends fall into Georgia.
>
> 72,
>
> Richard, WA4NWW (Three states for the price of one)
>

Date: Thu, 09 Dec 1999 20:07:37 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: Qrp-1@lehigh.edu
Cc: dfdraper@ix.netcom.com
Subject: [57719] Receivers: CW Filters an Alternate View
Message-ID: <199912100307.VAA27422@chupacabras.flash.net>
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

All - I received the following from Darrol Draper. He is not a subscriber to QRP-L, but he gave me permission to post his reply to me on my SCAF issues. This is a well thought out post, contains lots of useful information, and deserves consideration.

Darrol is not fond of SCAFs and presents an alternative analog filter design. I have not forwarded the Excel Spreadsheet he refers to, but if there is enough interest I will build a Dr. Megacycle Web site from which you can down load it.

The comments below about adequate IF selectivity are well taken. Put your money into narrower IF filters before you go out and buy an audio filter.

The comments about many sections of low Q are also correct.

Here is Darrol's e-mail. His address is: dfdraper@ix.netcom.com

I'm glad you came to the aid of this guy who was stranded without an answer. However, I don't agree with your advice on SCAF's. Here's why:

1. I tried an LM10 once, and found that it only rejected crud at 50 or 60 dB, at best. This is not enough for a decent receiver, especially considering the effort required to get it working. The clock could be a bother in a receiver, causing birdies, etc. The construction techniques have to be well thought-out, and this is not trivial. There are easier ways than an SCAF. Maxim makes some of the world's best IC's, but I believe this is a failing of all SCAF's in a single IC.

2. Ham Radio magazine had a large number of articles on this topic of getting the passband shape you wanted, complete with simple math. Several authors concluded that for CW, you are far better off with a relatively large number of low Q stages. 3 to 8 is a decent system. That gives better rejection of off-peak signals and reduces ringing.

3. This preference for lots of low Q stages falls out of the math for any analog (i.e. non-DSP) audio filters. Always, you want less ringing and more rejection of undesired signals. There are very sophisticated designs, such as the R-2 and a compensated audio filter in a CQ that manage to kinda get around this basic problem.

4. There are two mundane reasons why low Q is preferable. (1) You can use readily available R's and C's with ordinary tolerances. (2) Op amps have limited bandwidth. Typically, you want the product of Q x gain to be at least 10 times less than the GBW of the op amp. You can use fast op amps, but they are more prone to oscillation - a real

problem, especially for (1) novices and (2) DC receivers with AF gain exceeding 80 dB. (I speak from hard-earned experience here). Also fast op amps are harder to get, burn more power, and tend to be noisier than the slow ones.

5. There are a number of relatively simple circuits for AF filters; you can make any of them work.

6. My favorite filter is a one op-amp circuit published in "Electronics" (which was a US trade industry publication) for Dec. 9, 1976, page 97, "Multiple-feedback filter has low Q and high gain". The circuit is a variation on the common Salen-Key filter, with an added trick of using unequal value capacitors. It is ideal for receiver AF filters because it has (1) high gain (2) low noise (Active filters are noisier than regular amplifiers, a fact rarely discussed anywhere), and (3) isn't overly critical for parts values (I usually use 5% caps and 1% R's because that's what I have readily available. 5% R's might work fine, depending on how fussy you want to be.) I used this circuit for DC receivers, where you need lots of gain in the first and second stages, to achieve a decent NF. Of course, you will want to cascade a number of these filters to get a satisfactory receiver. For the downstream filters, you can back off on the gain and raise the Q. In the 1970's when I played around with DC receivers, I used a common base AF amplifier with a 50 ohm input impedance because there was a 50 ohm R to ground. The diode mixers really need this 50 ohm wideband impedance to get a good DNR (dynamic range). I think I have to thank Ray Leweyllan for this idea of a common base AF preamp. It's very low noise. You can put a crude AF filter on this transistor, by (1) using a smaller coupling capacitor from the input to the base (for high-pass, to block any 60 Hz noise), and (2) cutting the high freq gain. I don't recall whether I shunted the input with a few hundred pF, or if I put in a cap between the collector and base. These help increase the DNR of the AF chain. As I recall, at least one of my DC receivers also had a passive hi-pass and low-pass set of filters between the AF preamp transistor and the 1st active filter.

This "Multiple-feedback filter", like any Salen-Key filter, expects to be driven by low impedance. If you have a high source impedance, it counts as part of R1. Keep that in mind if you add R's and C's to the input of this filter.

I am attaching an Excel spreadsheet, Mfb-2.xls. It's based on the equations in this article, and calculates the values. It's useful because design is an iterative process, using the actual parts you have on hand, getting the correct impedance levels, etc.

7. I like superhets with real IF filters. They let you do things like true single-signal reception, as well as AGC, which you can barely do

without an IF chain. They are quieter, since the AF chain doesn't contribute much gain.

I built dozens of different audio filters with this circuit, and they all did what they were supposed to. I never got too wild on impedances, Q, gain, or C1/C2 ratios. I suppose if you do, you could end up with non-ideal responses. One thing to use iterations for is to recognize where a circuit is marginal, and to adjust the design before adding parts to any board. I could trace all my measured imperfections back to component tolerances. I never had to redo any of these designs. Mostly, they were used in commercial sound gear, for equalizers, where you don't want too much Q, and where gain can sometimes come in handy.

I don't have an account with QRP-L. If you want to post this, you have my permission. I don't know if you would need permission from whatever company published "Electronics". At one time, that was the most important trade journal for EE's as a whole, but it died out in the recession of 1982/'83.

Darrol Draper

I think that the above is very useful. I hope that some one can use the information contained in it. - Dr. Megacycle KK6MC/5

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Thu, 09 Dec 1999 22:30:42 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [57720] Re: Getting feedline into house...still more
Message-ID: <385073E2.CF0DCCD5@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks for all the suggestions. I have heard the sparl plug idea before as well as the bleeder resistors in line to ground.

I have a further question about the resistor idea. Isn't a static (or any other charge for that matter) going to seek the path of lesser resistance??? In other words, wouldn't any voltage present go after the 50 ohm path to the shack as opposed to the high ohmage path through the bleeder resistors???

Obviously it is a good idea to keep the rig unhooked when not in use with a setup like this.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Thu, 09 Dec 1999 22:37:31 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [57721] RE: Wyoming...ME T00!!!
Message-ID: <3850757B.9D20EA10@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need Wyoming for QRP WAS. I'm hoping to find somebody during the 10 meter contest this weekend. 10 has been very nice lately. I also need Utah and, for some odd reason Delaware.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Thu, 9 Dec 1999 21:50:45 -0600
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@lehigh.edu>
Subject: [57722] QRP+ repair info wanted
Message-ID: <199912100350.VAA05408@dialnet.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi folks..

I know this has been asked 100 times, but does somebody have the info on the guy who does repair work on the Index Labs rigs. It would be great if you get send it to me so I can get in touch with him.

Thank you,

Kelly Ellison

Date: Thu, 9 Dec 1999 21:51:34 -0500
From: k5xu@concentric.net
To: "qrp" <qrp-1@lehigh.edu>
Subject: [57723] Yaesu VX5R List
Message-ID: <00a201bf42ba\$d23fa580\$2d4aadce@mike>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Somewhere, I saw info about a listserv for VX5R owners. Now that I own one, I would like to try the list for a while.

If you have the info, please share it.

Mike Duke, K5XU, president,
Mississippi Council of the Blind

Date: Thu, 09 Dec 1999 22:01:10 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [57724] Re: Parallel feedlines and static discharge
Message-ID: <38506CF5.AC94A50D@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I like Doug's thinking and I recall having a conversation with L.B. about this topic at Atlanticon. I like the idea of bringing the parallel feeds down to a balun and then bringing coax into the house. My shack is on the second floor and I have no convenient way to mount outside knife switches. Also even if I could bring the parallel lines all the way into the shack I'd be taking them through metal siding and flashing. Not a good thing for that type of feedline as we have all already discussed.

Here would be my plan... An 80 (possibly 160) meter loop fed with parallel line that would run between 10-20 feet to a balun (4:1??? 6:1??? comments please). From the balun I'd then run about 10-15 feet of coax into the house to my tuner and then to the rig. I could put a gas gap static discharger in the coax line right before it comes into the house and run that down my current ground line from my roof mounted vertical to the house/antenna common ground system (All tied into the water main as well as a 12 foot ground stake)

My standard practice in addition to this is to completely disconnect my rigs from everything (line - antenna - ground) and I drop my unhooked antenna feedlines into a heavy duty glass jar when not in use.

Any body (especially L.B.) have any thoughts on this idea???

>I've used open wire feeders for years here in the lightning country
>of MT. I've had best success using a balun that has a grounded
>center tap on the antenna side and then feed that with coax from my
>tuner. It sure helps bleed off the static and protects my gear at the
>same time. I use a #6 copper to an 8 foot rod from the CT and
>have had no problems.

>

>73 all

>

>Doug, K7YD

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Thu, 09 Dec 1999 23:12:09 -0500
From: Thomas Isgro <k8cz@concentric.net>
To: KF4EIB@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [57725] Re: New Call - KV4CZ - ex kf4eib Gordon
Message-ID: <38507D99.109D@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Congrats and nice call.

73 Tom, K8CZ OH

Date: Thu, 09 Dec 1999 23:33:12
From: Robert McConnell <rmcconne@lightlink.com>
To: tjarey@home.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [57726] Re: Getting feedline into house...still more
Message-ID: <3.0.6.16.19991209233312.32c79bbc@pop.lightlink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Skip,

You're a little confused. The 50 ohm RF impedance is not the same as 50 ohm DC resistance. The transmitter final looks like an open circuit at DC, which is why static can build up on the antenna and feed lines to the point where it will actually damage something. The resistor bleeds off the static electricity without significantly affecting the RF circuit.

Bob McConnell
N2SPP

At 10:30 PM 12/9/99 -0500, T.J. \"SKIP\" Arey N2EI wrote:
>Thanks for all the suggestions. I have heard the spar1 plug idea before
>as well as the bleeder resistors in line to ground.
>
>I have a further question about the resistor idea. Isn't a static (or
>any other charge for that matter) going to seek the path of lesser
>resistance??? In other words, wouldn't any voltage present go after the
>50 ohm path to the shack as opposed to the high ohmage path through the

>bleeder resistors???

>

>Obviously it is a good idea to keep the rig unhooked when not in use

>with a setup like this.

>--

Date: Thu, 9 Dec 1999 23:47:10 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [57727] Any Yaesu 840 owners out there?
Message-ID: <199912092350_MC2-906C-61@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline

Gang:

Are there any Yaesu FT-840 transceiver owners out there? If so, would like to share experiences with you. I obtained one in a trade, and expect to use it mobile. But I sure wish I could discover some way to turn the AGC off at times.

Anyway, if you have an 840 and some experiences to share, please write :-). Would be great to hear.

72,
--Doc Lindsey/K0EVZ
DSBF
PO BOX 6028
Bismarck, ND 58506
K0EVZ@arrl.net

Date: Thu, 09 Dec 1999 23:58:16 -0500
From: Ken Newman <N2CQ@citnet.com>
To: QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [57728] CONTEST: This Weekend - QRP Calendar
Message-ID: <3.0.6.32.19991209235816.00844100@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

~~~~~  
1999 QRP CONTEST CALENDAR

December 11- 12  
~~~~~

ARRL 10 Meter Contest (CW/SSB) ... QRP Category

Dec 11 - 0000z to Dec 12 - 2400z

Rules: <http://www.arrl.org/contests/announcements/rules-10m.html>
~~~~~

The Great Colorado Snowshoe Run (CW) \*\*\* QRP Contest \*\*\*

Dec 12 - 0300z to 0500z

Rules: <http://home.sol.no/~jana1me/rules/snowshoe.txt>  
~~~~~

AND LATER.....

~~~~~

Croatian CW Contest (CW) ... QRP Category

Dec 18 - 1400z to Dec 19 - 1400z

Rules: <http://home.sol.no/~jana1me/htmlrules/9acw.html>  
~~~~~

RAC Canada Winter Contest (CW/SSB) ... QRP Category

Dec 19 - 0000z to 2359z

Rules: <http://www.rac.ca/CANWIN.htm>
~~~~~

Original QRP Contest (CW) ... QRP Category

Dec 25 - 1500z to Dec 26 - 1500z

Rules: <http://home.sol.no/~janalme/htmlrules/original.html>

~~~~~

Stew Perry (W1BB) Topband Distance Challenge (CW) ... QRP Category!

Dec 25 - 1500z to Dec 26 - 1500z

Rules: <http://home.sol.no/~janalme/rules/perry160.txt>

~~~~~

Holiday Milliwatt CW Contest \*\*\* QRPP Contest \*\*\*

Dec 26 - 1800z to 2200z

Dec 27 - 2000z to Dec 28 0000z

Dec 28 - 2200z to Dec 29 0200z

Rules: <http://www.qsl.net/kj5tf/mwtest.html>

~~~~~

72 de

Ken Newman - N2CQ

Woodbury, NJ

N2CQ@ARRL.NET

~~~QRP Contest Calendar~~~

<http://www.njqrp.org/data/contesting.html>

~~~WQ2RP NJQRP Club Station~~~

Date: Thu, 09 Dec 1999 23:01:38 -0600

From: "George T. Baker" <w5yr@worldnet.att.net>

To: tjarey@home.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [57729] Re: Parallel feedlines and static discharge

Message-ID: <38508932.A8EA2882@worldnet.att.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Skip, I bring in my ladderline through 1:1 current baluns to RG-213 coax on into the shack. The baluns are the W2DU type consisting of 50 ferrite beads on a short length of RG-303 coax. I built these from kits available from The Wireman and housed them in lengths of PVC tubing. You can also buy the complete baluns at a very reasonable price. Actually, you do not save enough making up the kits to make it worthwhile.

The coax lines are 12.5 ft long. The antennas are a 40-meter EDZ of 168 ft about 30 ft high and a 40 meter full-wave loop at about 20 feet. I find that using single lines is more convenient than preserving the balanced line format on into the shack. Also, I am confident that the W2DU baluns are much more efficient than typical 4:1 baluns as found on antenna tuners or as external units to be used outside the shack.

The loss in such short coax runs is negligible even at 10 meters with large SWR present in the coax line. Because the ladderline is always being operated with usually a substantial SWR, there is no point in trying to "match" to the 450 or 300 ohm impedance of the line with a 4:1 or 6:1 balun or whatever. Just go for the transition scheme that results in least loss combined with a physical situation you can live with. For me that meant W2DU current baluns transitioning to RG-213 coax on into the shack.

Works great!

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county

Amateur Radio W5YR, in the 54th year and it just keeps getting better!

R/C since 1964 - AMA 98452 RVing since 1972

"T.J. \"SKIP\" Arey N2EI" wrote:

>

> I like Doug's thinking and I recall having a conversation with L.B.

> about this topic at Atlanticon. I like the idea of bringing the parallel

> feeds down to a balun and then bringing coax into the house.

Date: Fri, 10 Dec 1999 00:15:20 -0600 (CST)

From: aweiss@usd.edu (Ade Weiss W0RSP)

To: qrp-l@lehigh.edu

Subject: [57730] RE: Feedline/house and lightening

Message-ID: <199912100615.AAA26875@sunburst.usd.edu>

Hi gang -- obvious that a zillion different kinds of hous structures out there all pretty much requiring an individual unique solution.

Mine is easy. An old c. 1926 frame house with basement window with 3 panes. Solution: take out window, re-putty it, paint it, set it up against the garage to dry, then get a kid to come along and knock out one pane and destroy it. Replace with plexiglass, working into the plexiglas whatever assortment of holes etc. that are needed. My choice was a simple dryer-vent with flopping window. Not exactly professional as the or four feedlines run in thru it.

Lightening is not so simple. I have had only one direct hit. A 1300ft longwire up 75-ft on a tree, running about 500-ft to the first tree-line which it went thru and touched, whence on down the section. The lightening hit in my 500-ft section. The #18 copperweld was vaporized; the remaining 800-ft crinkled and brittle and snapped to the touch. Luckily, the open-line feeder ran for about 60-ft about 2-ft above the ground. It too was brittle-ized. My guess is that is was the main reason that only the stereo front-end blew.

Second experience was here. I ran a buried 65-ft a.c. line out to the garage. Last spring had a fun thunderstorm. Still kind of a puzzle. No close hit anywhere, but it appears that static buildup in the garage wiring vs. house wiring was enough to trip the breaker in the circuit to the garage. I heard a strange sound that went along with it. A very loud sizzle. Very strange.

My guess is that when a direct hit occurs, something will be zapped regardless of the precautions. LB is right -- Lightening is a Murphy expert.

I just hope I never get hit again!

72, ADe

Date: Fri, 10 Dec 1999 01:18:38 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: Kelly Ellison <kelman@diadnet.net>
Cc: Stan Yarema <bg783@scn.org>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [57731] Re: QRP+ repair info wanted
Message-ID: <Pine.3.89.9912100144.B21667-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Dec 1999, Kelly Ellison wrote:

>
> I know this has been asked 100 times, but does somebody have the info on
> the guy who
> does repair work on the Index Labs rigs. It would be great if you get send
> it to me so I can get in touch
> with him.

>
Maybe Stan will reply directly to you with his repair policy. I can attest that he does excellent work at a more than fair price.

73,

Bob Patten, N4BP , ' ' ' , (0 0) Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Fri, 10 Dec 1999 05:56:45 -0500
From: "Robert Roach" <ke4qok@worldnet.att.net>
To: <aweiss@usd.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [57732] Re: Feedline/house and lightening
Message-ID: <002101bf42fd\$419e0f60\$61a16520@ke4qok>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I did something very similar but used a piece of one eighth thick brass plate in place of the plexiglass. I used bulkhead fittings for all of the coax feed-thrus and ran a wide strip of metal to a ground rod just below the window. This gave me excellent ground and a little better feeling about my chances of escaping a near miss lightning surge. I also tapped some holes in the plate so that I could attach equipment grounds on the inside.

Bob
KE4QOK

----- Original Message -----
From: Ade Weiss W0RSP <aweiss@usd.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Friday, December 10, 1999 1:15 AM
Subject: RE: Feedline/house and lightening

> Hi gang -- obvious that a zillion different kinds of hous structures out there
> all pretty much requiring an individual unique solution.
>
> Mine is easy. An old c. 1926 frame house with basement window with 3 panes.
> Solution: take out window, re-putty it, paint it, set it up against the garage to
> dry, then get a kid to come along and knock out one pane and destroy it.
> Replace with plexiglass, working into the plexiglas whatever assortment of
> holes etc. that are needed. My choice was a simple dryer-vent with flopping

> window. Not exactly professional as the or four feedlines run in thru it.
>
> Lightening is not so simple. I have had only one direct hit. A 1300ft
longwire
> up 75-ft on a tree, running about 500-ft to the first tree-line which it
went
> thru and touched, whence on down the section. The lightening hit in my
500-ft
> section. The #18 copperweld was vaporized; the remaining 800-ft crinkled
and
> brittle and snapped to the touch. Luckily, the open-line feeder ran for
about
> 60-ft abut 2-ft above the ground. It too was brittle-ized. My guess is
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>
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garage.
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> but it appears that static buildup in the garage wiring vs. house wiring
> was enough to trip the breaker in the circuit to the garage. I heard a
strange
> sound that went along with it. A very loud sizzle. Very strange.
>
> My guess is that when a direct hit occurs, something will be zapped
regardless
> of the precautions. LB is right -- Lightening is a Murphy expert.
>
> I just hope I never get hit again!
>
> 72, ADe

Date: Fri, 10 Dec 1999 03:38:06 -0800 (PST)
From: "ElectronicsUSA.com" <wpc@west.net>
To: qrp-1@Lehigh.EDU
Subject: [57733] Growing TT2 Photo Gallery
Message-ID: <19991210113806.AEE1324B42@acme.sb.west.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

****The Latest Additions to the Tuna Tin Two Photo Gallery****

Ed Roswell K2MGM - This is a great photo of his TT2 set up with an MK-33
mini-paddle, TiCK keyer, and of course, his TT2.

Mike Boatright K04WX - Check out his "reverse TT2"; it really looks cool!!

The Tuna Tin Two Photo Gallery:

<http://ElectronicsUSA.com/tunatin2.html>

Send me your TT2 Photo for inclusion in The Gallery!

tuna@ElectronicsUSA.com

72 and Enjoy!

John Roblin WA6KY0

ElectronicsUSA.com

"Mini-Keys, Binary Clocks, and other Cool Stuff"

Date: Fri, 10 Dec 1999 07:02:53 -0500 (EST)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [57734] Re: Parallel feedlines and static discharge
Message-ID: <Pine.GS0.4.10.9912100635150.13200-100000@moe.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Skip,

Just a couple of notes.

The "balun-at-my-window" technique has been used for many years successfully. The first known publication of the system appears to be a letter in Karl Thurber's CQ column perhaps 20 years ago. The system is not a "no-loss" system, but is in stead a compromise. On 10 meters, 20' of RG213 has a loss of about 1 dB with a 10:1 SWR, and anything lower in frequency or SWR or shorter length is lower loss. So, for the advantages of coax in the shack, one accepts the loss on any given band.

My bestg suvcess has been with ferrite choke baluns (W2DU or derivative designs), which are inherently 1:1. Any kind of balun with reactance is another loss source, but here of unknown amount depending on the specific device used.

I prefer 1:1, since the only tghing I want to do is to ensure that all

antenna currents are within the coax--more exactly, that the fields are between the center conductor and braid, with nothing on the outside. Since the complex impedance at the antenna is transformed continuously along the line, it may already be low at the junction with the balun-coax, and a 4:1 balun may make it too low for antenna tuner efficiency or ability to handle--again, depending on the design. Those who have used 4:1 baluns with no problems simply have not hit that case. The key to remember is not the ratio of the characteristic impedances of the lines involved (for example 300:1 or 450:1). The key is the actual value of impedance at the terminals, which is a complex function of the antenna impedance on any band, the line Z_0 and velocity factor, and the line length. For a given antenna, if you can measure these values for each band, you can obtain a balun or build one that is suitable, but for general purposes, where these values are unknown, I tend to prefer the ferrite choke over coax designs or variants, sometimes called line isolators.

If the system is not in use, the antenna should have a disconnect at the entry point to the house--perhaps a knife switch outside the window. A heavy strap or wire (braid is less effective) to a ground rod is most desirable--on the premise that you have no practical way to place the antenna safety grounding system away from the building. Keep exposed feedline ends outside. A lightning strike on a line ended in a glass jar may create shrapnel upon even a partial strike, since the heavy current heat the feedline with explosive speed. Isolation of all gear (as I tend to express it, as if it was still in the shipping carton) is also good for equipment protection. However, always think in terms of what will save the house--since gear melted down in a house fire is no better than gear incinerated by a direct strike. And the house also has family members whose value is too high for estimation.

Unless one is in commercial communications or in emergency service, it is unwise for any ham station of any power level to be connected to the universe of strikes and surges when a. not in use, or b. during an electrical atmospheric event. Since strikes and surges at a distance can propagate, using a main house surge protector and smaller ones near equipment is good (but not perfect) insurance at low cost. Smaller surge protectors tend to have faster response times than heavy duty ones for main service box use, so the combination is useful for protecting sensitive receiver circuits, etc. Their use with other sensitive equipment is also desirable, given not only the TV/stereo/computer equipment in the home, but as well the controls of most large appliances. Likewise, bleeder resistors or chokes that carry building charges before they can rise off to the ground line mentioned earlier are also good insurance for the receiver front end.

With these kinds of protections in place (and properly installed ground rods and interconnection to keep the voltage gradient from point to point

in the overall DC, AC, lightning ground system as low as possible), the need for spark gaps disappears. However, a discharge device of professional design is useful with a good ground line as a hedge against forgetfulness. For Murphy always has a thunderstorm in his pocket for people who forget to switch over and disconnect after operating.

Hope this is useful to you. Like my previous note, it is still only the beginning--and everything has to be detailed by each operator against a. specific circumstances and b. expanded reading in expert sources.

-73-

LB, W4RNL

Date: Fri, 10 Dec 1999 06:44:26 -0600
From: Wayne Alexander <walexan@ipa.net>
To: qrp-l@lehigh.edu
Subject: [57735] Re: LOOKING FOR K10J?????
Message-ID: <4.2.0.58.19991210064029.00947ee0@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Thanks for all the replies.
K10J has sent me some E-Mail.
Things will be worked out.
Thanks, except for Team Swamp Rats (MAC) grin
HI MAC.
Have fun.

73,
N0EA
Wayne
Willard, MO
FISTS # 4907
QRP-L # 1058

Date: Fri, 10 Dec 1999 07:13:05 -0600
From: "Bradfield, Brad V." <BBradfield@spectrapoint.com>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [57736] Re: Parallel feedlines and static discharge

Message-ID: <8D9A3E0C6F42D1118EDC0060081D3FFA02077AEA@ucusmail.spectrapoint.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello Y'all - -

I agree with L.B 100%. In my former life as a broadcast engineer, common practice on series fed (read that insulated from ground) AM vertical antennas, was to install a spark gap across the base insulator of the tower to shunt a sufficiently high voltage to ground. The primary purpose for this was to shunt the majority (note that I didn't say "all", or even "most") of a lightning strike to ground. The trick was to adjust the gap as close as possible, while keeping it from arcing over on modulation peaks, with a sufficient margin allowed for changes in the dielectric constant of the air in the gap. They would also commonly arc over from static buildup, typically when an electrical storm was anywhere in the area.

Point two concerning shunt bleeder resistors, I used this method for years on HF mobile antennas. I usually used a 10K to 100K two-Watt carbon resistor installed at the base. One common broadcast practice is to shunt an inductor across the base insulator to provide a constant bleed off of any static build up on the tower. A common rule-of-thumb is to use an inductive reactance value from 10 to 100 times the RF impedance at that point. The spark gap was still installed across the base to take the load of a faster lightning strike.

72's es 73's,

Brad, W5CGH

=====

Brad Bradfield, PE
Test Staff Engineer
SpectraPoint Wireless LLC
(W) 972-852-7101
(Pgr) 972-648-3632

Date: Fri, 10 Dec 1999 09:03:22 EST
From: Macstein@aol.com
To: qrp-l@lehigh.edu
Subject: [57737] RE: Looking for K10J?????
Message-ID: <0.4e9bb5a8.2582622a@aol.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

In a message dated 12/10/99 7:45:37 AM EST, walexan@ipa.net writes:

> Thanks for all the replies.
> K10J has sent me some E-Mail.
> Things will be worked out.
> Thanks, except for Team Swamp Rats (MAC) grin
> HI MAC.
> Have fun.

BIG GRIN.

72
-MAC-
AF4PS

Date: Fri, 10 Dec 1999 07:24:04 -0700
From: Dave Ek <ekdave@earthlink.net>
To: k7sz@epix.net
Cc: qrp-1@lehigh.edu
Subject: [57738] Re: Gell Cell charger circuit
Message-ID: <3.0.6.32.19991210072404.0079f3f0@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Try

<http://www.rason.org/Projects/projects.htm>

There are various projects listed there, one of them being a gel-cel
charger I just built for myself. Works great.

73,

Dave AB0GO

Date: Fri, 10 Dec 1999 09:43:46 -0500
From: hattonte@gdls.com
To: qrp-1@Lehigh.EDU

Subject: [57739] Re: QRP-L digest 1658
Message-ID: <0F4A4ED6AC.C8DB4A36-0N85256843.0050D225@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

YES Bonza idea, cobber!

KI8JA Detroit Mich.

(did i say that right?)

Date: Fri, 10 Dec 1999 09:20:16 -0500
From: "W5TB - 'Doc' Drake" <w5tb@softhome.net>
To: <trandall@idsi.net>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [57740] SOLAR CHARGER/BATTERY PACK GROUP PURCHASE?
Message-ID: <B4767650.22F5%w5tb@softhome.net>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

on 12/9/99 8:11 PM, Tom Randall at trandall@idsi.net wrote:

Try this place, very good selection, prices
> and fast!
>
> <http://thomas-distributing.com/index.htm>

Thanks Tom! Good prices plus

GANG -- CHECK THIS SOLAR BATTERY CHARGER OUT!

http://thomas-distributing.com/icpg-04041_solar_battery_charger.htm

If we order 6 or more the price drops \$33.90 Ea

Let's see -- how about 16 of the NEXCELL AA - 1400mAh NiMH Rechargeable
Batteries -- that'd be about \$ \$34.40 in lots of 48 or more

Sound interesting for all you QRP Field ops? It sure sounds like just what I
need for extended backpacking and/or canoeing trips with the QRP rig along!

Anyone interested in a group purchase -- I'm betting we could even beat the
total cost of \$68.30 (plus shipping)

73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@arrl.net <http://www.qsl.net/w5tb/>
QRP-ARCI # 3252 NORCAL #1002 QRP-L #673 FISTS # 5365
ARRL Life Member

Date: Fri, 10 Dec 1999 16:37:22 -0000
From: "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
To: "QRP-L" <qrp-l@lehigh.edu>, "GQRP-L" <gqrp@onelist.com>
Subject: [57741] Heathkit
Message-ID: <00dd01bf432c\$d7189e00\$dda832d4@prsat0x1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

These pages will be of interest to Heathkit fans, mods etc
<http://members.accessus.net/~dwentz/kb9jja/heathkit/>

Frank G3YCC G QRP 042
QRP web page <http://www.g3ycc.karoo.net>

Date: Fri, 10 Dec 1999 11:08:49 -0600
From: Karl Kanalz <KKanalz@excel.com>
To: "'w5tb@softhome.net'" <w5tb@softhome.net>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Subject: [57742] RE: SOLAR CHARGER/BATTERY PACK GROUP PURCHASE?
Message-ID: <2D343922E283D211945C0008C7A41B2A013101CE@ADNTEX01.adsn.dal.excel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

If you check out the website referenced by "Doc"
(thomas-distributing.com..... below) and check the technical specs of their
NiMH cells, you'll find they frequently reference "Maha" batteries. As I
recall, "Maha" is one of the advertisers in Q-Street and CQ magazines. I
wonder if "Maha" themselves would offer a better price for these cells?

Karl K - W8TIF

McKinney, Texas

-----Original Message-----

From: W5TB - 'Doc' Drake [mailto:w5tb@softhome.net]
Sent: Friday, December 10, 1999 8:20 AM
To: Low Power Amateur Radio Discussion
Subject: SOLAR CHARGER/BATTERY PACK GROUP PURCHASE?

on 12/9/99 8:11 PM, Tom Randall at trandall@idsi.net wrote:

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> and fast!
>
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Thanks Tom! Good prices plus

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73 T.E. 'Doc' Drake W5TB

Arlington, TX w5tb@arrl.net <http://www.qsl.net/w5tb/>
QRP-ARCI # 3252 NORCAL #1002 QRP-L #673 FISTS # 5365
ARRL Life Member

Date: Fri, 10 Dec 1999 12:50:29 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [57743] HB: HF Sig Gen
Message-ID: <199912101731.MAA00215@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7BIT

Howdy,

This last week I got back to work on the (relatively) low cost HF signal generator project and now it's starting to look like something!

I put the PLL chip back in, as my clever software PLL emulation scheme only sort of worked. The generator now tunes 400 Khz to 31 Mhz in 1 Khz min steps. There's a little jitter on the signal below 600 Khz, but not too bad. the PLL is currently using a 4 Mhz reference clock, but will probably change that to 10 MHz, so a TCXO could be substituted, should one turn one up.

I decided to go with a LED display. A LCD module is more convenient and easier to interface, but the LED display is just so much easier to read, especialy if it's not right in front of your face!

Finally, I added an AGC leveling circuit, so the output signal now has a consistant level over the whole tuning range. Was hopeing to advoid that, but just couldn't get away with out it. Turns out it wasn't all that hard to do.

So, the hardware is finally about done, time to start adding features to the software, like a sweep mode and RS232 control.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Fri, 10 Dec 1999 14:22:19 +0000

From: Larry Cahoon <wd3p@juno.com>

To: rwc@frii.com, qrp-1@Lehigh.EDU

Subject: [57744] Re: [OPERATING] Low weight station setups? HOW TO?

Message-ID: <19991210.182514.4974.2.wd3p@juno.com>

A fresh set of 8 AA batteries will last the two hours of the contest with a SST with out a problem.

And if you want to cut it a bit more, the SST can be set up to run off of a 9 Volt Battery. The mods are spelled out in the kit. I've never tried that one so I don't know how long the 9 volt battery will last.

73 de Larry.....WD3P

On Thu, 9 Dec 1999 18:31:42 -0700 "Rod Cerkoney" <rwc@frii.com> writes:

>I just finished reading the ARS SP results/soapbox. A question: What
>are
>you less than two pound station folks using for power supplies?
>
>---
>72/3 Rod, NØRC -- Fort Collins, CO
>
>

Why pay more to get Web access?
Try Juno for FREE -- then it's just \$9.95/month if you act NOW!
Get your free software today: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 10 Dec 1999 09:41:05 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [57745] Worked All States mW QSL cards
Message-ID: <19991210174105.9305.qmail@web703.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

After finishing mW WAS and getting all the QSL cards I
finally sent in my application to ARCI awards. Soon
that prized wallpaper will be hanging in my shack.

If you'd like to see the QSL cards, & the final "logs"

for my milliwatting efforts you can see them on my
webpage.

Just goto my qsl.net webpage listed below, click the
links button, and find the mW WAS QSL card link and
click again.
I've had some trouble with it, so if theres a problem
please let me know.

72/71's de Jim KJ5TF

=====
Ham radio/alt energy - <http://www.qsl.net/kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
AR QRP#2 - Kingston, Arkansas - 35.94N 93.47W

Do You Yahoo!?

Thousands of Stores. Millions of Products. All in one place.
Yahoo! Shopping: <http://shopping.yahoo.com>

Date: Fri, 10 Dec 1999 10:51:43 PST
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [57746] Watch Out! The QRPers Are Coming! DX2000 Vancouver July 28-30
Message-ID: <19991210185143.78500.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

QRPers --

I thoroughly enjoyed the North Shore Amateur Radio Club Christmas Banquet last night in North Vancouver, BC. The MC was club President Greg Soderling, VE7SOD, an active QRPer, complete with his perpetual smile and Santa hat. Among the luminaries decked out in dinner attire was the BC QRP stalwart guru, Derry Spittle, VE7QK.

Another prominent Lower Mainland QRPer is Dave Barrett, VE7PCC, who, in addition to serving as President of the BC QRP Club, is also President of the Delta ARC. One might say that the center of gravity in the active amateur community in the Vancouver region is shifting toward QRP.

You may have heard about a big annual DX convention. Well, the one for the summer of 2000 will be held in Vancouver, British Columbia from July 28-30. Called the Pacific Northwest DX Convention, this international event is sponsored by the BC DX Club and the Fraser Valley DX Club. Two members of the leadership team for this three-day gathering are VE7SOD and VE7PCC. It will come as no surprise, then, that QRP is going to be a prominent part of the convention. The details are being ironed out at the moment, but you might want to check <http://www.bcdxc.org> to keep abreast of developments. For now, just mark your calendars. BTW, please keep this a deep, dark secret, but Vancouver is beeeautiful -- one of the prettiest cities in the world -- and I've been to a lot of them. It very seldom rains in July.

Here's a bit of trivia: one of the mountains visible from Vancouver is Continuous Wave Mountain. Yep! That's continuous wave, as in CW! How did it get that name? Well, a crusty old backcountry hiker who also happened to be a ham proposed the name and the British Columbia government approved it! What does the mountain look like? It's sorta wavy, like a continuous green wave.

72, Bruce Prior in Blaine, WA -- one of the Mangy Mushers

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 10 Dec 1999 10:52:29 PST
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [57747] HB: Building a Frequency Counter
Message-ID: <19991210185229.41677.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

As I indicated in an earlier post, I have had an itch to acquire/repair/build a frequency counter. Well, nothing resembling one has come my way so I have been working on building one. Available parts included two Maxim ICM7217 chips (4 digit Up/Down Counter) so I rigged up a circuit using both in tandem to get 8 digits.

The circuit uses a 4.9152 crystal that was scrounged off of some computer board. The oscillator is divided down by a factor of 6144 using an 'HCT4020 (pins 1 and 2 fed to an 'HCT00 to provide the reset pulse) to get an 800 cps pulse. The oscillator is further divided down through a string of decade counters to 80, 8, 0.8 and 0.08 cps. The latter three signals are selectable with a rotary switch and fed to the gating circuitry for the Maxim chips (providing the STORE, RESET and COUNT inputs). The 8, 0.8 and 0.08 cps signals are drawn off the last digits of the BCD decade counters so they are actually, after inversion, gating signals with durations of 0.1, 1 and 10 s. The time spent in the OFF state is only 25% of the ON time so that the display does not waste (much) time while not counting.

When I finished building this circuit, I discovered that the counts measured from a test oscillator were not consistent on the three gate time settings. They should have been clean multiples of 10. However, the shorter gate times gave counts less than expected. For example:

| Gate time: | 0.1s | 1s | 10s |
|------------|-------|--------|---------|
| Count | 99929 | 999463 | 9994798 |

It appeared that the gating signals were being "shaved" by a fixed amount of time (apparently about 17 microseconds). Tweaking the oscillator's trimmer (in the counter) or using different test signals did not affect the ratios.

To test this idea and to see whether I could remedy this error, I built a circuit to add a delay in the negative transition of the gating signal. Basically, this was a trim pot feeding a schmitt trigger with cap to ground. Output of the schmitt trigger (inverter) was combined with an inverted "copy" of the input signal to a NAND gate. In this way I could add a fixed (and trimmable) correction time to the gate signal.

With the circuit in place, and using the same test signal the results were:

| | | | |
|------------|-------|--------|---------|
| Gate time: | 0.1s | 1s | 10s |
| ----- | | | |
| Count | 99948 | 999483 | 9994826 |

Now the counts are numerically consistent. Problem is solved but I have no idea where that error originates. Anyone have any ideas? Is it a flaw in the Maxim chips?

Now I have to calibrate this thing. Any suggestions?

Thanks and 73,

Brad

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 10 Dec 1999 11:16:44 -0800
From: Ed Loranger <we6w@qsl.net>
To: qrp-l@lehigh.edu
Subject: [57748] They called him Hack.
Message-ID: <3851519C.DF779CA5@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Happy Friday to all. For those of you with limited time, I've condensed the reason for this post in the first paragraph. For those in the "Friday" mood, my entertaining dialogue follows.

I need a used MIG welding unit, common good deals are around \$100.00; I wish to trade straight across

for one of my industrial quality 10 MHz Oven controlled SC Cut XTAL oscillators that use a 24 Volt @200 mA oven and 12 V @4 mA sinewave oscillator which is settable to within 1 Hz of 10 Mhz and is a maximum of 10 Hz away from 10 Mhz even when cold. I'd also like to read a post or two from some who have received my oscillator in the past and how much they like it and info on their current application.

Now the Friday portion:

They called him Hack. Cars feared him. Buildings shuddered upon entry. Known for his prowess at dissection, only the completely hot-rodde and optimized radios or appliances seemed safe from future acts of violence.

Hack carried a Cobalt "M-42" drillbit and plenty of backup for his cordless drill. No metal was safe. The windows close to the hamshack sensed that someday they'd be part of the feedline and wondered when the holes would be drilled. The shutters became shudders whenever Hack entered the workroom, often sporting a package of blades for another tool of destruction.

With 36 teeth per inch and labeled "Contractor's grade", the menacing hacksaw had been finely tuned. Remnants of past deeds rested nearby as a fine powder under the bench-mounted vise. Hack was merciless. With Bugler cigarette dangling from mouth corner, he neither smiled or frowned, confusing his prey -- the metal yielded but not without periodic high-pitched scream sometimes muffled by wooden inserts place into the vise jaws.

With sawing and drilling complete, Hack found desert, as if finishing a fine meal, by implementing a 12 hard file. In defiance the aluminum would clog the file but to no avail. Hack owned a special, curved flute file made especially for aluminum. The taped handle was age telling but the file had never dulled. Complete families of aluminum alloy had been turned to dust with the beast.

But Hack grew tired, his inventions required bolts and nuts to secure the new shapes as one. Hack had ideas, grand ideas of not disassembly and shaping with his grinding devices, but of assembly without threaded fasteners. He needed a big soldering iron.

A MIG welder.

Please help end the suffering of innocent metals.

72 de Hack/WE6W

--

-72/Ed WE6W; AR Millennium Q's=> 2344/2000 A-1 OP
http://www.qsl.net/we6w Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

Date: Fri, 10 Dec 1999 14:42:16 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <we6w@qsl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [57749] Re: They called him Hack.
Message-ID: <003401bf4346\$b119e820\$9001a8c0@wn.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> With Bugler cigarette dangling
> from mouth corner, he neither smiled or frowned

Bugler???? I haven't hear of that since I think 1972!!

Date: Fri, 10 Dec 1999 11:48:01 -0800
From: Allan G Taylor <k7gt@arrl.net>
To: qrp-l@lehigh.edu
Subject: [57750] FOX: very advance FOX notice--K7GT
Message-ID: <385158F1.1CF2@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am in the process of altering my email as well as doing some vacationing as the new year approaches. So I would like to put out a WELL IN ADVANCE FOX announcement for K7GT.

I will be operating Jan 4, 2000 from 1700-1859 PST
(Jan 5, 2000 from 0100-0259 UTC) as the FOX.

I will try to start at 7041 if it is clear. This FOX is very skittish

and will likely jump around a lot in frequency. Don't crowd him. Please call at least 200Hz away, preferably UP. Also, when I call for (and I will) QRZ QRPP QRPP don't just drop your power and keep calling. It is my hope that I can get some of the weaker sigs through the bedlam this way. I will also try geographic-specific QRZ?, as in QRZ K1?, meaning 1st call district and not necessarily that I was looking for Mike! I will be running TRLog at 28 wpm but I CAN send slower and may try a slow QRZ from time to time. If I do send QRZ slowly, PLEASE , QRQ guys, lay off and let the slow ones through. You will have your turn... I need someone to QSO in the 2nd hour.

Oh, my exchange is RST CA ALLAN 1016.

PLEASE, PLEASE send your exchange in the SAME order. THANKS.

See ya then! I would really like to break 100 Qs.

GT

--

Allan Taylor K7GT Grid CM97 email: k7gt@arrl.net

Date: Fri, 10 Dec 1999 11:51:56 -0800
From: Scott Gregson - KC7MAS <emtech@steadynet.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [57751] Winding toroids for the NW radios
Message-ID: <385159DC.CC33CD87@steadynet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I just posted a tutorial about how _I_ wind toroids for the NW series radios. I understand that other people may have other ways of looking at things. Until I have some spare hours to work up a photo presentation of the "art of toroid," this'll have to do.

I put the posting on our forum, you can read it at:
[http://www.emtech.steadynet.com/forum/bforum.mv?](http://www.emtech.steadynet.com/forum/bforum.mv?module=view&viewid=88&mode=all&row=&username=&password=)
[module=view&viewid=88&mode=all&row=&username=&password=](http://www.emtech.steadynet.com/forum/bforum.mv?module=view&viewid=88&mode=all&row=&username=&password=)

To comment you'll need to get a username and password at:
<http://www.emtech.steadynet.com/forum/bforum.mv>

--

Scott Gregson - KC7MAS
emtech@steadynet.com

<http://emtech.steadynet.com>

+++++

Scott Gregson Co. / Emtech / CFC
1127 Poindexter Ave W
Bremerton, WA 98312

Date: Fri, 10 Dec 1999 11:48:31 -0800
From: Mike Gipe <mgipe@reliablemeters.com>
To: "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [57752] HB: looking for a technical paper
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928E6B3@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Gang --

I am looking for a copy of a journal paper, and hope that someone on this list may have a source.

The paper is:

S.D. Bedrosian, "Normalized Design of 90 degree Phase Difference Networks",
IRE Transactions on Circuit Theory, June 1960, Volume CT-7, pp 128-136

Any chance someone out there has a copy or has access to a library copy?

Mike Gipe K1MG
Saratoga, CA

Date: Fri, 10 Dec 1999 14:56:52 EST
From: GUARDM@aol.com
To: qrp-l@lehigh.edu
Subject: [57753] Re: They called him Hack.
Message-ID: <0.9112d2f3.2582b504@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

> Bugler???? I haven't hear of that since I think 1972!!

Actually they sell Bugler by the pound can in many prisons...cheaper that way.

(I work in one, haven't been a resident! hi hi)

Mev KG9NF

Madison Wisconsin

QRP-L #2066 10X #7014

ARS #641

<http://www.qsl.net/kg9nf>

Date: Fri, 10 Dec 1999 13:17:44 -0700 (MST)

From: Joe Gervais <vole@primenet.com>

To: qrp-l@Lehigh.EDU

Subject: [57754] Selling Sierra + SST-20, need prices

Message-ID: <199912102017.NAA22813@usr07.primenet.com>

Howdy Folks,

Happy Holidays! Crawling out of my hole long enough to make a nuisance of myself as usual. :-)

Could someone please tell me where I can find the going rate for a Wilderness Radio Sierra w/ all band modules (rig + 4 modules are built), and an SST-20?

Just ordered some business equipment, then realized at some point a bill is going to arrive and I'm going to have to pay it. Imagine that. Since I can't count on Y2K to wipe the slate clean, I've got to raise some cash. So....

The Sierra has a few tweaks courtesy of AZ ScQRPion Dan N7VE, and puts out 11W on 40M, 7W on 30M, and 5W on 20M. In other words, gotta use a wattmeter to keep Fox kills legal. :-)

Thanks in advance. Actually this really kinda hurts. :-/

Hope all's well with everyone.

Cheers de AB7TT,

-Joe, vole@dancris.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

Date: Thu, 09 Dec 1999 23:26:14 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [57755] FYBO? HACK
Message-ID: <38509D06.3774@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Hey Brian, when is FYBO going to be? I have my DSW in the fridge
acclimating and I'm anticipating!

HACK....slang term for a railroad caboose

72, Tom WB5QYT...."Have spud will travel!"

Date: Fri, 10 Dec 1999 16:01:19 -0500
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: myetsko@insydesw.com
Cc: qrp-1@lehigh.edu
Subject: [57756] Re: They called him Hack.
Message-ID: <v0310280fb477192a1fba@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Mike and Ed discuss,

>> With Bugler cigarette dangling
>> from mouth corner, he neither smiled or frowned
>
>Bugler???? I haven't hear of that since I think 1972!!

Cigarettes? All I've ever seen are the rolling papers and Bugler tobacco
in cans. In fact, I've never known anyone to put tobacco in those papers.

This may be a first, and right here on qrp-1 too.

72,

Rick kf4ar

Date: Fri, 10 Dec 1999 13:37:20 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-l@lehigh.edu
Subject: [57757] Transmatch on ARS Sojourner
Message-ID: <38517290.79B4FB13@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Nice to see so many people reading The ARS Sojourner (<http://www.natworld.com/ars>). Thanks to the skill and professionalism of Richard Fisher and Russ Carpenter, The Sojourner has become a significant resource to many members of the QRP community.

I have had a lot of requests for specific details on the tiny transmatch I use in conjunction with my backpacking transceiver. I am working on getting inside photographs and construction information up on my web page. But basically it is nothing more than a parallel tuned LC circuit set up to resonate on 20 meters. A half-wave wire attaches to the top and a quarter wave counterpoise connects to the bottom. A four turn wire link connects to a short length of coaxial cable that goes to the transmitter.

Also, several folks asked about the finger paddles. I will get some design and construction information on my web page about them, too. Stay tuned.

--

=====
Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>
=====

Date: Fri, 10 Dec 1999 16:56:55 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [57758] re: NJQRP's "QRP Homebrewer"
Message-ID: <00c701bf4359\$cc7a9840\$acca9cce@ire.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

As Chuck K7QO mentioned here last weekend, the remaining "extra" copies of the premiere issue of QRP Homebrewer distributed last month to new subscribers has grown very small.

However, as Chuck was alluding, we had the printer make another small run of the November issue for those who might still wish to order a charter subscription.

You can still subscribe and have it start with the very first issue if you get your order in right away. Subscription orders are still being received on a daily basis, and they are being started with "November QHB" as long as the supply lasts. When our supply is exhausted, new subs will start with the February issue.

For complete information concerning the contents of the November issue, and subscribing instructions, please refer to the NJ-QRP website (http://www.njqrp.org/data/qrp_homebrewer.html). If you don't have web browsing capabilities, you can get the info file as an automatic reply message by sending an email to EMBOT@NJQRP and putting SEND QRP_HOMEBREWER in the body of the message.)

The February issue is in the final stages of compilation, and I've got to tell you that I'm even more excited about this one than I was with our first issue. There's a fabulously strong theme of "homebrewing" of course - i.e., building one's own equipment, tools, rigs, antennas, feedlines, support structures, et al. And *this* time we're taking a good look at Manhattan construction techniques, guidance, examples and projects that will knock your socks off! K7QO has a feature article that will be of immense value for *all* us homebrewers - beginners and experts alike - and we've complemented the theme with numerous related articles. We're sure that you'll love it!

Thanks for the heads-up on this to us all Chuck. And please remember to send in your subscription order to take part in this super fun aspect of our QRP hobby ... homebrewing!!

72, George N2APB
n2apb@amsat.org
editor and publisher, QRP Homebrewer
for the NJ-QRP Club at <http://www.njqrp.org>

IMPORTANT NOTE: Several people have indicated that they were missing a couple of pages in the November issue. It seems the printer had a sticky wicket (or whatever they use for their collating machine :-)) ... so please check your issue for all pages being present (especially around the N2GJU "homebrew pcb" article) and let us know if you need anything. We'll happily get it out to you immediately. (And the two fellas who *did* contact me ... I've misplaced your notes, so please let me know again of your need.) I'm

sorry about the printing problems, and we'll get that shaken out in the next issue. Thanks guys.

=====

[The following excerpt is from a recent Chuck Adams, K7Q0 posting]

Gang,

Some of you have been dragging your feet and you are about to make a serious mistake IMHO. The New Jersey QRP Club, NJQRP, has already printed one issue of "QRP Homebrewer" which has been reviewed already in previous postings by others.

[snip]

Now, why this posting? If you do not subscribe pretty darn quick you will miss issue number 2. Number 2 is going to have a detailed article on a very important topic, which George can announce if he so wishes. I'm thinking that if you have to ask then you are being too selective in QRP material. :-)

And I think, but George will have to clarify this for me and you, that if enough people will let him know and put up the \$15 for a one year sub right this month he can reprint copies of #1 for the new kids on the block. I know that it is that time of year when the holiday season and travel and other expenses mount up, but consider the \$15 your present to yourself for something that you can use all year. It's a gift that keeps on giving day after day if you are like me and read and reread books and newsletters.

The clock is ticking on this one group. And it is important enough that I posted on the topic. My one posting for this month.

Chuck Adams K7Q0 K7Q0@hotmail.com <http://www.qsl.net/k7qo/>

Date: Fri, 10 Dec 1999 15:27:07 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu, cqclist@mtechnologies.com
Subject: [57759] SNOWSHOE RUN IS TOMORROW (SATURDAY) NIGHT!
Message-ID: <199912102225.PAA10128@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Last minute reminder, folks, the Great Colorado Snowshoe Run is tomorrow night-- rules and such appended. This the third year for this event, believe it or

not, and it should be a lot of fun. Hope to work YOU!

73

Marshall Emm, N1FN

THE GREAT COLORADO SNOWSHOE RUN

Sponsored by the Colorado QRP Club

When: 0300-0500Z Sunday, December 12, 1999 ***UTC***

For Continental US time zones this works out to:

Pacific: Saturday, Dec 11 7-9 pm

Mountain: Saturday, Dec 11 8-10 pm

Central: Saturday, Dec 11 9-11 pm

Eastern: Saturday, Dec 11 10pm - 12 midnight

Band: 40 Meters only

Mode: CW

Power: 5 watts maximum for all entrants

(QRO stations are encouraged to join the run, but we can't accept your logs as a contest entry. QRP stations can work QRO stations.)

Classes: Based on antenna type!

W - Single element wire (includes dipole, random wires, Zepp, doublet, inverted "V", slopers, single element loops, inverted "L", etc.)

V - Verticals (includes single element, ground plane, trapped vertical, anything with vertical polarization and omnidirectional pattern).

B - Multi-element arrays/beams (includes beams, multi-element loops, phased verticals, V-beams, rhombics, etc.)

If you are not sure about your antenna class, send us a description ASAP via email and we'll let you know. Operations may be conducted with different antennas provided all antennas used are in the same class.

Exchange: RST + State/Province/Country + Antenna Class + CQC # or Power

Example: 549 CO W NR154 or 559 VA V 5W

Multiple Contacts: The same station may be worked up to three times during the contest, provided there is a minimum of 30 minutes between QSOs with the same station.

Scoring:

3 points per QSO, the first time each station is worked.

2 points for the second time the same station is worked.

1 point for the third time the same station is worked.

Multipliers: SPCs and the number of CQC members worked.

Second and third contacts with the same station, if made, do not count as multipliers.

Total Score: QSO Points X SPCs X Members = Total Score

AWARDS: Certificates will be awarded to the highest scoring station in each antenna class, and the highest scoring station in each SPC.

LOGS: Submit logs showing time UTC, callsign, exchange received and QSO points for each station worked.

Example:

0305 W0CQC CO S 5W 3 1

0312 K5AB TX V 154W 3

0336 W0CQC CO S 5W 2 0

Also include a summary sheet giving your name, call sign, antenna class, mailing address, a calculation of your total score. Also include an alphabetical listing of claimed multipliers and a description of equipment and power used. Comments are also welcome.

Logs must be postmarked or e-mailed no later than 30 days post contest.

Mail to: Colorado QRP Club, Inc., P.O. Box 371883, Denver, CO 80237-1883

E-mail (ASCII text files only) to: contest@cqc.org

Date: Fri, 10 Dec 1999 14:36:57 -0800

From: Jim/Julia <w7ls@blarg.net>
To: qrp-1@lehigh.edu
Subject: [57760] PM-3A and AC supply for sale
Message-ID: <38518089.C9B363CD@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. I have a TenTec PM-3A and it's matching AC supply for sale (\$175 plus shipping for the pair) or swap. I'm looking for older military HF manpack stuff, such as the PRC-64, 74, or even vhf stuff like the PRC-25 and PRC-77, or the PRC-68. Let me know what you have and maybe we can sling radios through the mail. Thanks.
Jim W7LS

Date: Fri, 10 Dec 1999 17:09:46 -0600
From: Johnny <km5im@telepath.com>
To: "gqrp@onelist.com" <gqrp@onelist.com>, "homebrew@qth.net" <homebrew@qth.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "qrp@qth.net" <qrp@qth.net>
Subject: [57761] Books needed on Radio electronic RX and TX
Message-ID: <3851883A.E5E021D9@telepath.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello

Looking for some books that can help me in radio theory, receiver and transmitters the basics. Something that they would use for in school. In learning basic radio theory. If you have any ideas about a some books please email direct

Johnny

Date: Fri, 10 Dec 1999 15:20:45 -0800
From: Ed Loranger <we6w@qsl.net>
To: qrp-1@lehigh.edu
Subject: [57762] ARRL SS Deadline gone...

Message-ID: <38518ACD.C7C23DB@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If a tree falls in the forest and no-one is there to hear it, did it make a sound?

So goes it with my SS entry. The deadline was Dec. 8th and due to hand injuries from typing, I was very reluctant to type up all 234 QSO's, dupe sheet, state sheet and what not.

Sorry I didn't add to the QRP/SS statistics. Am bummed out but I do know I heard the tree cuz I was at the station when the QSO's were made.

Back into my excavated terra firma.....

--
-72/Ed WE6W; AR Millennium Q's=> 2344/2000 A-1 OP
<http://www.qsl.net/we6w> Santa Rosa, CA
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

Date: Fri, 10 Dec 1999 15:24:23 -0800
From: Scott Gregson - KC7MAS <emtech@steadynet.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [57763] Weird offer - gel-cell charger
Message-ID: <38518BA7.E9C186EB@steadynet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have been working on a gel-cell charger for a sports-medicine application - based on the UC3906. Our application is for a 1.2aH battery. This charger includes a circuit to shut off the load if the battery voltage drops below the set minimum voltage (to protect the battery). It also has circuitry for LED indicators - charger ON, charge enabled, and battery voltage low. The setup allows charging of the battery while running the load via an external power supply.

The offer - help me smoke test a few: 10 kits available for \$26.00 (shipping included). Like I said in the subject, a weird offer. If you order one, I will supply you with parts for a kit rated for your battery. To use this kit you will need a 15-18VDC power supply. Your power supply needs to handle your load (if you intend to charge and run)- (up to 5.6 amps for IRF510) plus the charging current for your

battery (420+mA to 840mA - 4.2aH, 720+mA to 1.4amps - 7.2aH, plus maybe 100mA loss). The kit has (2) mounting holes to mount it via spacers to the bottom of a cabinet. and the T-220's are mounted so as to be attached to the cabinet for a heatsink (I won't supply insulators or hardware). The kit will not include connectors, hardware, or switches. It will include the following:

All New stuff-

- 1- board - thru hole'd and etched
- 1- handful of wire
- 1- TIP32B (T-220)
- 1- IRF510 (MOSFET) (T-220)
- 3 - 1-3 watt resistors
- some 1% and 5% resistors
- 1- 1N4002/3
- 2- Comparators
- 3 LED's
- 1 set crude instructions
- 1- UC3906
- 1- 8-pin dip socket
- 2 heat sinks

I will supply this kit for the first 10 that respond. Of course my purpose here is to find any glitches that I've over-looked.

If you went out and obtained these parts yourself, they would cost you a lot more than \$26.00, so I think this is a deal. I just need some input.

In the future _____(MAYBE)_____ I will have offer these in a package that includes either a 4+ah or 7+ah battery, maybe a box, coffee mug holder/warmer, and CATV monitor (just kidding about the mug holder).

Email me for more info.

____unrelated thingy here_____

Also - a friend of mine makes really nice bird houses/feeders, this is his only source of income he had to quit being a contractor to give his wife more care (sickly). Please consider his stuff, my wife has put a few up on auction at Ebay:

<http://cgi3.ebay.com/aw-cgi/eBayISAPI.dll?ViewListedItems&userid=megamommy>

His web site is <http://www.winstonsbirdworks.com>.

I bought my Dad one of the bird feeders about 2 years before he died.

He used to sit inside his room and watch the birds and finally the squirrels steal the feed. I think he really enjoyed the feeder. He was always aware of the birds, and this was a natural gift for him. I bought my mom one of the watermelon bird houses and she really got a kick out of it, and some birds got a new home.

Thank you!

I hope all of that made sense.

--

Scott Gregson - KC7MAS

emtech@steadynet.com

<http://emtech.steadynet.com>

+++++

Scott Gregson Co. / Emtech / CFC

1127 Poindexter Ave W

Bremerton, WA 98312

Date: Fri, 10 Dec 1999 16:29:15 -0700 (MST)

From: "Paul Harden, NA5N" <na5n@rt66.com>

To: tom whalen <wb5qyt@eFortress.com>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [57764] Re: FYBO? HACK

Message-ID: <Pine.SUN.4.10.9912101626050.12541-1000000@shell.rt66.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 9 Dec 1999, tom whalen wrote:

> HACK....slang term for a railroad caboose

>

> 72, Tom WB5QYT...."Have spud will travel!"

^^^^

SPUD ... slang term for beer.

I.e., this SPUDS for you

But seriously (sorta) ... when is FYBO scheduled for in 2000?

Or just waiting to see if we survive Y2K?

72, Paul NA5N

End of QRP-L Digest 1665
